

# **Goddard Procedural Requirements (GPR)**

DIRECTIVE NO.	GPR 8730.1K	APPROV	ED BY Signature:	Original signed by
<b>EFFECTIVE DATE:</b>	July 21, 2008	NAME:	Arthur F. Obenschair	1
<b>EXPIRATION DATE:</b>	July 21, 2015	TITLE:	Acting Director	

### **COMPLIANCE IS MANDATORY**

**Responsible Office:** 500 / Applied Engineering and Technology Directorate

**Title:** Calibration and Metrology

### **PREFACE**

#### P.1 PURPOSE

This procedure establishes the process for ensuring that Inspection, Measuring and Test Equipment (IMTE) is properly calibrated, maintained, and identified.

### P.2 APPLICABILITY

This procedure applies to all IMTE used to process GSFC product.

#### P.3 AUTHORITY

NPD 8730.1, Metrology and Calibration

### P.4 REFERENCES

- a. AS9100, Quality Management Systems Aerospace Requirements
- b. ISO 9001, Quality Management System Requirements
- c. Form WI-710, (Wallops Island) Metrology Task Order Request for Service Quality Verification Laboratories Form
- d. GSFC 4-34, Nonconforming IMTE Tag
- e. GSFC 4-43, Out of Tolerance Notification Test Equipment Findings

### P.5 CANCELLATION

GPR 8730.1J, Calibration and Metrology

#### P.6 SAFETY

None

#### P.7 TRAINING

All Greenbelt users shall take Calibration Database Management Training. Code 540 shall provide the training material.

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#### P.8 RECORDS

Record Title	Record Custodian	Retention
Recall System Records	Calibration Laboratory	Maintain current list of Cat 1 IMTE
IMTE Cat 1 List	Calibration Laboratory	*NRRS 8/103 - <b>Temporary</b> . Destroy/delete between 5 and 30 years after program/project termination.
Calibration and Repair Records including WI-710	Calibration Laboratory	*NRRS 8/103
Records of test software verification used as IMTE	IMTE User	*NRRS 8/103
Calibration and Repair Records of IMTE calibrated or repaired by other laboratories	IMTE User	*NRRS 8/103
Calibration and Repair Records of IMTE calibrated or repaired by user	IMTE User	*NRRS 8/103
Out of Tolerance Notification Test Equipment Impact Findings	Technical Monitor	*NRRS 8/103
Training Records	Supervisors	*NRRS 3/33G1 - Destroy 5 years after employee discontinues or completes training.

<sup>\*</sup>NRRS – NASA Records Retention Schedules (NPR 1441.1)

### P.9 METRICS

The GSFC calibration contractor's management is responsible for the monthly reporting of metrics to the Technical Monitor. As a minimum, metrics shall include the following:

- Cost
- Turn-around time
- Number of IMTE items processed
- Out of Tolerance Reports, and
- Customer satisfaction (as measured by user feedback).

The Technical Monitor shall ensure that this information is reviewed for trends and process improvement.

#### P.10 DEFINITIONS

- a. <u>Calibration</u> A comparison between two instruments or devices where one is a standard of known accuracy to detect, correlate, report, or adjust deviations in the accuracy of the instrument being compared.
- b. <u>Calibration Interval</u> The established time between calibrations of IMTE. The interval may be determined and adjusted periodically by reviewing tolerance data, usage, historical data, IMTE manufacturer's specifications, and other relevant information. The time interval is determined by

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organizational management and/or the primary and secondary Points of Contact in conjunction with manufacturer's recommendations.

- c. <u>Calibration Label</u> A label affixed to IMTE to show its calibration status. Appendix A shows the calibration labels commonly used by the Center's calibration laboratories.
- d. <u>Calibration Laboratory Recall System</u> A system, based on the IMTE Recall List, that reminds IMTE users when calibration is due on a Cat 1 item of IMTE in accordance with the predetermined calibration interval.
- e. <u>Data</u> The value of a measured quantity provided by a measurement instrument and the information needed to duplicate the calibration.
- f. <u>Inspection Measuring and Test Equipment (IMTE)</u> All devices, systems, and standards that are used or available to be used to measure, gauge, test, inspect, or otherwise determine compliance with prescribed technical requirements of a product, or an element of a product, within the Goddard Management System (MS). IMTE includes diagnostic and prognostic equipment; semiautomatic and automatic test equipment (with issued software); calibration, test, or measurement equipment; and bench set-ups used as standards. IMTE is categorized three ways as follows:
  - (1) <u>Category (Cat) 1, Calibration Required</u> IMTE used in tests leading to new product development such as flight hardware, engineering models/test units, product dependent support equipment, research and development, and proof-of-concept. It includes any measurements where accuracy of measurement is important to ensure results are meaningful or where IMTE malfunction may cause damage.
  - (2) <u>Category (Cat) 2, Calibrate Before Use (CBU)</u> IMTE that may be used on an infrequent basis so as not to justify keeping the equipment in calibration at all times. Use of this IMTE to measure, gauge, test, inspect, or otherwise determine compliance with prescribed technical requirements is prohibited after the expiration date.
  - (3) <u>Category (Cat) 3, Calibration Not Required (CNR)</u> IMTE not used to measure, gauge, test, inspect, or otherwise determine compliance with prescribed technical requirements.
- g. <u>IMTE Recall List</u> An electronic or hardcopy listing of Cat 1 IMTE that defines when calibration is due in accordance with the predetermined calibration interval, and is available and/or accessible to the users.
- h. <u>IMTE User</u> The individual in an organization who employs an item of IMTE to measure, gauge, test, inspect, or otherwise determine compliance with prescribed technical requirements.
- National Standards Standards maintained by the National Institute of Standards and Technology, or based on intrinsic or natural phenomena that constitute the basis for the national measurement system.

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- j. <u>Organization Calibration Laboratory</u> A laboratory or organization, other than a Principal Calibration Laboratory, performing calibration, inspection, and repair of IMTE on-site or through an outside service provider.
- k. <u>Points of Contact (primary and secondary)</u> IMTE owners/users that have designated responsibility for ensuring the proper maintenance of all IMTE within their particular organization. Use of points of contact (POC) in this document refers to the primary (civil service) and/or secondary (civil service or contractor) personnel designated with this responsibility.
- 1. <u>Principal Calibration Laboratory</u> A specialized laboratory that is staffed and equipped to perform calibrations, inspections and repair of IMTE. The term Principal Calibration Laboratory used in this document refers to the Center's two primary calibration laboratories, one managed by Code 540 at Goddard's Greenbelt Facility and the other by Code 500.W at the Wallops Flight Facility.
- m. <u>Standards</u> Devices or instruments that provide the basis for the calibration of IMTE. Standards are defined in terms of their derivation and use.
- n. <u>Technical Monitor</u> A civil servant designated as responsible for the management of the overall Calibration and Metrology Program at Greenbelt and/or Wallops Flight Facility.

#### P.11 ACRONYMS

None

### **PROCEDURES**

In this document, a requirement is identified by "shall," a good practice by "should," permission by "may" or "can," expectation by "will," and descriptive material by "is."

1. The Mechanical Systems Division (Code 540) of the Applied Engineering and Technology Directorate at Greenbelt and Code 500.W at Wallops Flight Facility shall each establish, at their respective sites, a Principal Calibration Laboratory for IMTE containing the appropriate standards with traceability to the National Institute of Standards and Technology. Other calibration laboratories may exist on the respective sites to handle specific IMTE. Each such laboratory shall have documented calibration and equipment control procedures that define the operating requirements and meet the Calibration Laboratory Requirements listed in section 2 of this directive.

### 2. Calibration Laboratory Requirements

At Greenbelt, users may request calibration services from the Principal Calibration Laboratory by submitting an on-line <u>Calibration Request</u>. For help with the Greenbelt calibration task order, contact the Technical Monitor in the Mechanical Systems Division. At the Wallops Flight Facility, users may request calibration services by completing Form WI-710, Task Order Request for Service Quality

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Verification Laboratories, obtained from local stores stock or from the Principal Calibration Laboratory at Wallops.

Each principal calibration laboratory and all organization calibration laboratories shall:

- a. Be compliant with ISO 9001 or AS9100 and meet the competency and accreditation requirements of NPD 8730.1. Calibration services, when procured, shall also meet these requirements. The suppliers of calibration services shall provide measurement data to users, upon request, as required in the referenced standards.
- b. Provide calibration and repair of IMTE, including maintenance of related records and an IMTE Recall List.
- c. Establish and document calibration intervals for Cat 1 IMTE that shall be traceable to manufacturer's specifications, industry practices, history, and use.
- d. Maintain a document control system for calibration laboratory manuals, procedures, equipment certifications, and other calibration documents to ensure proper controls and traceability for the calibration process.
- e. Document, maintain, and operate an IMTE labeling system that indicates the calibration status of equipment. Labels are described below and in Appendix A.
  - (1) Cat 1 IMTE will bear a CALIBRATION label. IMTE so labeled shall have the date it was calibrated and the next calibration due date visibly displayed at all times.
  - (2) Cat 2 IMTE will bear a CALIBRATE BEFORE USE (CBU) label. IMTE so labeled may have two labels affixed at one time: a Calibration label and a CBU label. It is optional for the user to remove the Calibration Label upon expiration.
  - (3) Cat 3 IMTE will bear a CALIBRATION NOT REQUIRED (CNR) label. IMTE so labeled may have two labels affixed at one time: a CNR label and a Calibration label.
  - (4) A LIMITED USE CALIBRATION label is used in lieu of the Calibration label when it is necessary to describe limitations on the use of equipment that is otherwise considered calibrated. It may be used in combination with a CBU label or CNR label.
- f. Identify government-owned IMTE by means of the Equipment Control Number (ECN) or a Metrology Control Number.
- g. Periodically review the IMTE Recall List for accuracy which includes ensuring correct type identification, organization identification, and the activation and deactivation of equipment as directed by the owning organization. The IMTE Recall List shall be available and/or accessible to the user.

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h. For IMTE found to be Out of Tolerance (OOT), the calibration laboratory shall generate a calibration OOT Report and send it to the user. It will include general contact information, equipment identifying information, and instrument OOT details.

i. Operate a Calibration Recall System that, for Cat 1 IMTE, sends Calibration Due notices to the IMTE organization's primary and secondary POCs 30-45 days prior to the calibration expiration date. Calibration due notices shall be sent to the organizational management personnel when alternative POCs have not been identified by management. Upon calibration expiration, a past due notification shall be sent to the POCs, and they have up to 30 days to respond to the notice. If there is no response, the calibration database shall be updated within the next 30 days to flag the past due item(s) as inactive. The inactive IMTE shall be retained in the Calibration Laboratory Recall System. A list of the inactive IMTE shall be forwarded to the responsible directorate office for appropriate action (see section 5).

#### 3. IMTE Users shall:

- a. Ensure that the calibration status of IMTE is understood before use and that all IMTE used to measure, gauge, test, inspect or otherwise determine compliance with technical requirements is properly calibrated.
- b. Ensure that IMTE is appropriate for the measurements to be made and is used in a manner which ensures that measurement uncertainty is known and is consistent with the required measurement.
- c. Properly store, handle, and maintain IMTE.
- d. Ensure that only qualified personnel make adjustments to IMTE that may affect its calibration.
- e. Determine whether the IMTE is Cat 1, Cat 2 or Cat 3 and ensure the appropriate label is affixed. In cases where calibration services are provided by a non-GSFC calibration contractor, the user shall ensure that the IMTE is labeled in a manner consistent with the labels defined in Appendix A.
- f. Affix the appropriate calibration status labels to storage containers of IMTE that is too small or otherwise unsuitable for direct labeling. In the case of Cat 1 IMTE, the calibration laboratory shall affix the label. The user shall develop and document procedures for the handling of Cat 1 IMTE that is too small or otherwise unsuitable for direct labeling to ensure that tracking and traceability of calibration status is maintained and to prevent the inadvertent use of uncalibrated IMTE.
- g. Be included in the calibration recall process if they utilize the Principal Calibration Laboratory for all Cat 1 IMTE calibration requirements. If the IMTE user elects to utilize off-site calibration and metrology resources, they must maintain a valid recall system for all Cat 1 IMTE and define the process employed for calibration including details of equipment type, unique identification, and location, frequency of checks, check methods, and acceptance criteria.
- h. Ensure that when personnel responsible for areas or facilities where GSFC product is processed find IMTE that is not in compliance with this procedure, they shall tag the IMTE with a GSFC 4-34,

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NONCONFORMING IMTE tag (see Figure 1), indicate on the tag the reason for the nonconformance and segregate the IMTE to prevent unintended use. Nonconforming IMTE shall not be used on GSFC product. The IMTE user is responsible for ensuring nonconforming IMTE is properly dispositioned.

- i. Ensure that if sources other than the Principal Calibration Laboratories are selected for support, they shall be compliant with ISO 9001 or AS9100, and meet the competency and accreditation requirements of NPD 8730.1. IMTE calibrated by these sources is not included in the Calibration Laboratory Recall System.
- j. Develop and document procedures according to the documents/standards stated in 3.i for the calibration of specific items of IMTE, including test software and bench test setups related to product testing.
- k. Upon receipt of a <u>GSFC 4-43</u> Out of Tolerance Notification/Test Equipment Impact Findings form from the calibration laboratory, assess the validity of work done with any IMTE found to be out-of-tolerance (OOT). Develop, document, and implement additional testing, if required.
  - (1) A <u>GSFC 4-43</u> shall be completed for every OOT condition. When the OOT condition is found to have an impact or possible impact on previously inspected or tested product, a Problem Report/Problem Failure Report (PR/PFR) shall be prepared. The PR/PFR shall document the impact of the out-of-tolerance condition on all products or services processed with the IMTE in question since the last acceptable assessment by the calibration laboratory.
  - (2) Quality Representative sign-off of the 4-43 and return of the 4-43 to the calibration laboratory shall occur within 30 days of initial notification by the calibration laboratory.
  - (3) If not completed within 30 days, the Technical Monitor shall within 10 working days, generate a Nonconformance Report (NCR) against the user's division-level management for failure to resolve an OOT condition.

### 4. Organizational Management shall:

- a. Identify primary (civil service) and secondary (civil service or contractor) POCs to handle the day-to-day responsibility for the organization's IMTE.
- b. Receive recall notification if no POCs have been identified.
- c. Ensure proper use of the Principal Calibration Laboratory or organizational calibration laboratory.
- d. Ensure that users develop, document, and implement procedures for the control of IMTE to reflect specific and unique requirements.
- e. Ensure that new IMTE designated as Cat 1 is added to the Calibration Laboratory Recall System. The calibration laboratory can provide details of this process.

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**5. Directorate Management or Equivalent** shall, upon receipt of an inactive IMTE list, ensure that it is verified and corrected by the Division Management or equivalent and the corrected list forwarded to the Principal Calibration Laboratory manager to update the IMTE database.



Figure 1. Nonconforming IMTE Tag

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### APPENDIX A **CALIBRATION SYSTEM LABELS**

Labels - All instruments, devices, and artifacts serviced are to be labeled with the appropriate calibration label(s). The labels shown below are the commonly used labels by the Metrology and Calibration Laboratories. In addition to these labels, equivalent labels from outside service providers are acceptable.



Calibration - This NASA Metrology label identifies by ECN, or MCN, the test equipment, device, or artifact calibrated, the date calibrated, and the date due for next calibration. This label is used when the test equipment was compared with calibrated standard(s) or test equipment and determined to perform within specifications over all ranges/parameters/functions, except as identified on an accompanying Limited Use Calibration label.

Blue lettering on a silver background in sizes 0.9" x 1.5" and 0.5" x 0.9".



Calibrate Before Use - This NASA Metrology label identifies test equipment, devices, or artifacts which: (1) must be calibrated before using, (2) are not included in the GSFC Calibration Recall Program and are out-of calibration and not expected to be used for a period of time, or (3) are included in the GSFC Calibration Recall Program and are put in a hold status.

Red lettering on a silver background in size 0.9" x 1.5".



Calibration Not Required - This NASA Metrology label identifies test equipment, devices, or artifacts that, because of their specific non-accuracy sensitivity or non-hazardous measurements, do not require calibration. Signature by authorized management designee is optional. Such requirements may be addressed in the user's procedures.

Red lettering on a silver background in sizes 0.9" x 1.5" and 0.5" x 0.9".



**Limited Use Calibration** - This NASA Metrology label identifies the test equipment, devices, or artifacts for which a complete calibration has not been performed or which does not meet all specifications for a full calibration but are still usable. The label identifies the limitation for use, the ECN, MCN, or serial number, the date calibrated, and the date due for next calibration.

Green lettering on silver background in sizes 1" x 1.5" and 0.6" x 0.9".

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## **CHANGE HISTORY LOG**

Revision	<b>Effective Date</b>	Description of Changes
Baseline		Initial Release
A	9/4/98	<ul> <li>Format changes to add document number and page number to header and correct version warning to footer.</li> <li>Added a Calibration Laboratory responsibility to investigate the cause of out of calibration conditions, report findings to the User, and to use such findings to modify calibration procedures as appropriate (2.1.f)</li> <li>Added Calibration Laboratory responsibility to establish and maintain a facility-wide Master List of IMTE (2.1.g).</li> <li>Added a Calibration Laboratory responsibility to submit a notice of expiration of calibration to the Audit Office when no acceptable response is received for a Calibration Due Notice (2.1.h).</li> <li>Deleted requirement for directorate-level procedures regarding calibration of IMTE, making Users responsible for applying requirements of this GPG to IMTE in their laboratory (2.2).</li> <li>Added explanation of acceptable responses to a Calibration Due Notice (2.2.f).</li> <li>Added a requirement for Users to ensure that IMTE information is submitted for inclusion on the IMTE Master List and that notice of IMTE disposal is submitted to delete items from the Master List (2.2.i).</li> <li>Added an Audit Office responsibility to initiate a Nonconformance Report for expiration of calibration notices, with the "found by" code to be Item d. In-Process/Final Inspection/Test (non-operational) and the Item Type in Block 7a to be Item 9. QMS Element (2.4).</li> </ul>
В	5/21/99	GPG rewritten in its entirety to simplify process and description.
С	8/19/99	<ul> <li>Deleted requirement for IMTE list.</li> <li>Added sentence to allow for Type 3 IMTE to be used on product for certain conditions in paragraph 1.a. (3).</li> <li>Added description for Limited Use Calibration Labels in paragraph 1. DEFINITIONS, (1) Type 1, Calibration Required.</li> <li>Changed paragraph to show that the IMTE can have two labels instead of only one in paragraph PROCEDURE, 1. DEFINITIONS, a, (3) Type 3, Calibration Not Required.</li> <li>Added reference to Appendix for examples of calibration labels in paragraph PROCEDURE, 1. DEFINITIONS, d.</li> <li>Deleted requirement for mandatory response by user to recall system notices.</li> </ul>

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		<ul> <li>Added requirement for Non Conformance Tags. Added paragraph 2.4</li> <li>Changed to have signature optional on Calibration Not Required Label in Appendix.</li> </ul>
D	11/09/99	<ul> <li>Deleted definition of "Code"</li> <li>Corrected name of Code 800</li> <li>2.2. e - Added requirement for second Calibration Due Notice and for removal of IMTE from Recall list 30 days after second notice if no response is received.</li> <li>2.3. h - Removed references to Attachments. Added embedded hyperlink to GDMS Forms section for Greenbelt and Wallops calibration lab support request forms</li> <li>Delete Attachments 1 and 2 (calibration lab support request forms)</li> </ul>
Е	09/01/00	<ul> <li>P6 Records Retention schedules corrected.</li> <li>2.2f Paragraph rewritten to eliminate verbiage related to cause investigation.</li> </ul>
F	10/22/01	<ul> <li>P4 - Added references for forms referenced in the document.</li> <li>2.1 - Requires use of the principal Calibration Laboratories unless not practical</li> <li>2.2. a - Added requirement that calibration and repair be initiated on receipt of CO approved Task Order.</li> <li>2.2.e - Added calibration notices by e-mail Equipment entry in IMTE database to be made inactive versus removal so that Directorates can identify and address equipment out-of-calibration and so that history information on last calibration will be kept and not lost. Out-of-cal still becomes the responsibility of the owner.</li> <li>2.2. h - Adds equipment to ETCR contract if request for calibration or repair is for IMTE not on the contract.</li> <li>2.3.h - Changes from old calibration request form to task order required by new ETCR contract. Identifies web page at Greenbelt. Reformats to eliminate sub sections.</li> <li>2.3.k - Identifies user responsibility for proper property labeling.</li> <li>2.3.1 - Identifies user responsibility for periodic review of IMTE list for accuracy and addition or inactivation of equipment in list.</li> <li>2.5 - Identifies responsibility of Logistics Management Division to notify the Calibration Laboratory of any IMTE that is excessed.</li> </ul>
G	08/15/02	<ul> <li>P2 - Procedure applies to all IMTE</li> <li>P10.a - Include engineering models, R&amp;D leading to product, flight software verification and other instances where accuracy is important to ensure results are meaningful.</li> </ul>
Н	08/15/03	<ul> <li>Minor corrections for punctuation and ease of reading throughout.</li> <li>Changed references to organization responsible for calibration laboratory from Code 300 to Code 540.</li> </ul>

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		<ul> <li>Amended process description to reflect the Code 540 process.</li> <li>P4 – Deleted Davis Calibration Task Order Request Form 214.4-1845.</li> </ul>
I	12/29/04	As directed during the FY04 Center Rules Review, the Responsible Office modified this document to remove requirements that were no longer needed and to clearly distinguish requirements from supporting information.  Administrative changes were made throughout to correct responsible organization names and codes, and to retitle Goddard Procedures and Guidelines (GPG) to Goddard Procedural Requirements (GPR). All changes were reviewed and approved by the Goddard Quality Management System Council (QMSC).
_		Clarify requirements P10.a.3 and clarified metrics.
J	2/23/07	• In the Preface, changed P.2 to apply to only to IMTE used to process GSFC product. Updated P.4. Deleted P.6. In P.7, added IMTE User training requirement. In P.8, corrected records retention schedule and added training records. Clarified metrics in P.9. In P.10, updated definitions as needed.
		• In section 1, updated owning organizations. Identified code 500.W at WFF to own the Wallops calibration lab.
		• Reorganized sections 2, 3, and 4 into two sections, one for calibration lab responsibilities, and one for user responsibilities.
		• Corrected references to ISO 9001, AS9100, and the Z540.1 standards.
		<ul> <li>Added detail information for proper closure of an Out of Tolerance situation and included new GSFC 4-43.</li> </ul>
		Added new sections 4 and 5 for organizational and directorate management responsibilities
K	07/21/08	• 2.i Added a 30-day period to the inactive equipment process
		• Change all Type 1, 2, 3, to Category (Cat) to reflect the Agency language
		3.k (3) Changed may to shall and added 10 working days to the NCR processing of OOTs
	05/03/13	Administratively Extended for 1 year.
	03/10/14	Administratively Extended for 1 year.